# MtIntosh

C 26



### SERVICE INFORMATION

STARTING WITH SERIAL NO. 10P01

FREQUENCY RESPONSE

+0 to -0.5dB from 20Hz to 20,000Hz

**DISTORTION** 

Less than 0.1% at 2.5 volts output, 20Hz to 20,000Hz

INPUT SENSITIVITY (phono 1 and phono 2)

2 millivolts for 2.5 volts output at 1kHz

INPUT SENSITIVITY (aux, tape 1, tape 2, tuner)

0.25 volts for 2.5 volts output

HUM AND NOISE (phono 1 and phono 2)

74dB below rated output for a 10 millivolt input signal

HUM AND NOISE (aux, tape 1, tape 2, tuner)

85dB below rated output

OUTPUT (main)

2.5 volts with rated input. Up to 10 volts can be developed without distortion.

OUTPUT (tape)

0.25 volts with rated input. Phono input signal of 10 millivolts produces 1.2 volts output.

OUTPUT (center channel)

2.5 volts with rated input on both channels. A level control adjusts output from -6dB to +6dB with respect to main output.

BASS CONTROL

-20dB to +16dB at 20Hz

TREBLE CONTROL

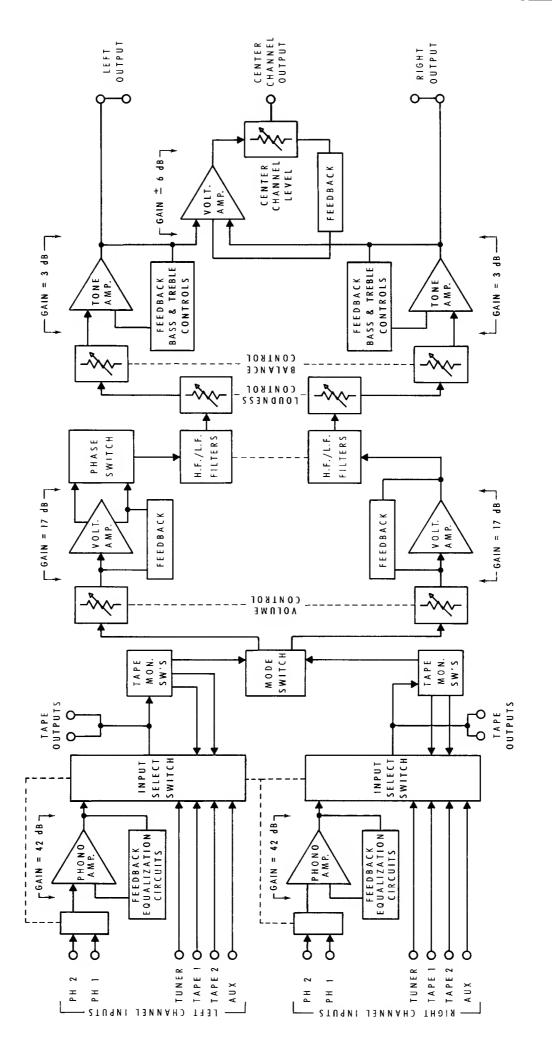
+20dB at 20,000Hz

LF FILTER

Flat or roll off below 50Hz, down 12dB at 20Hz

HF FILTER

Flat or roll of above 5,000Hz, down 12dB at 20,000Hz



C 26 BLOCK DIAGRAM

#### SCHEMATIC NOTES

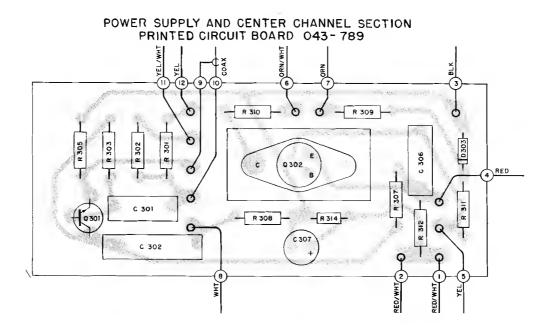
- 1. Unless otherwise specified: Resistance values are in ohms, 1/4 watts, and 10% tolerance; capacitance values smaller than 1 are in microfarads ( $\mu F$ ); capacitance values greater than 1 are in picofarads (pF); inductors are in microhenries ( $\mu H$ ).
- 2. Printed circuit board components are outlined on the schematics by dotted lines. The circled numbers around the dotted lines correspond to the numbers on the PC Board layouts.
- 3. The heavy lines on the schematics denote the primary signal path.
- 4. The terminal numbering of rotary switches is for reference only.
- 5. All voltages indicated on the schematics are measured under the following conditions:
  - a. Use of an 11 megohm input impedance VTVM.
  - b. All voltages  $\pm$  10% with respect to chassis ground.
  - c. No signal at input terminals.
  - d. AC input at 117 volts, 50/60Hz.
  - e. Front panel controls at:

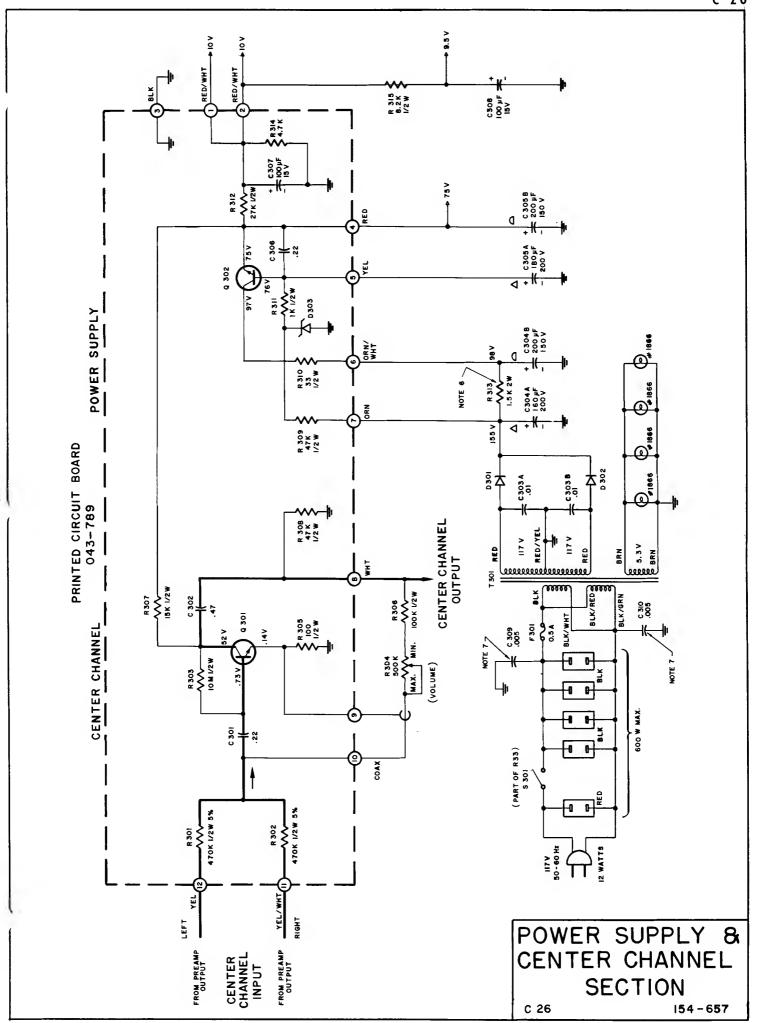
Volume Fully CCW, but with power switch on

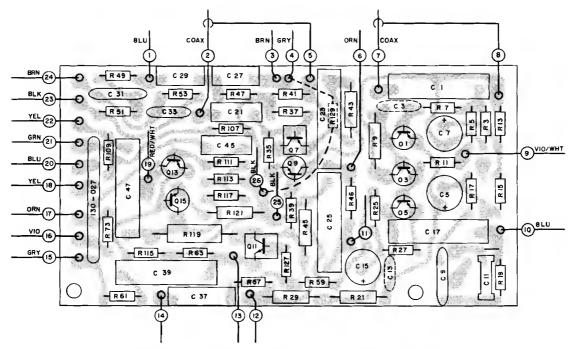
Mode Stereo
Input Selector Phono I
Loudness Flat

All other controls at normal positions.

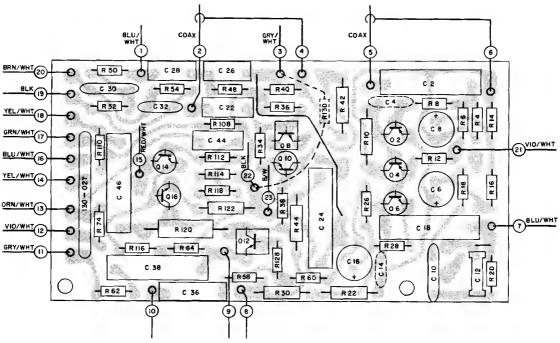
- 6. R313 is 1K in early units.
- 7. In units with serial No's below 30P55, C309 and C310 are not used.
- 8. In units with serial No's below 30P50, R127 and R128 are not used.
- 9. In units with serial No's below 30P53, R129 and R130 are not used.
- 10. In units with serial No's below AG3301; C3, C4, C13 & C14 are used; C48, C49, C50, C51, C52 C53, R131 & R132 are not used; R129 & R130 are 1M.
- 11. In units with serial No's below AG1222; R25 & R26 are 1.8K.



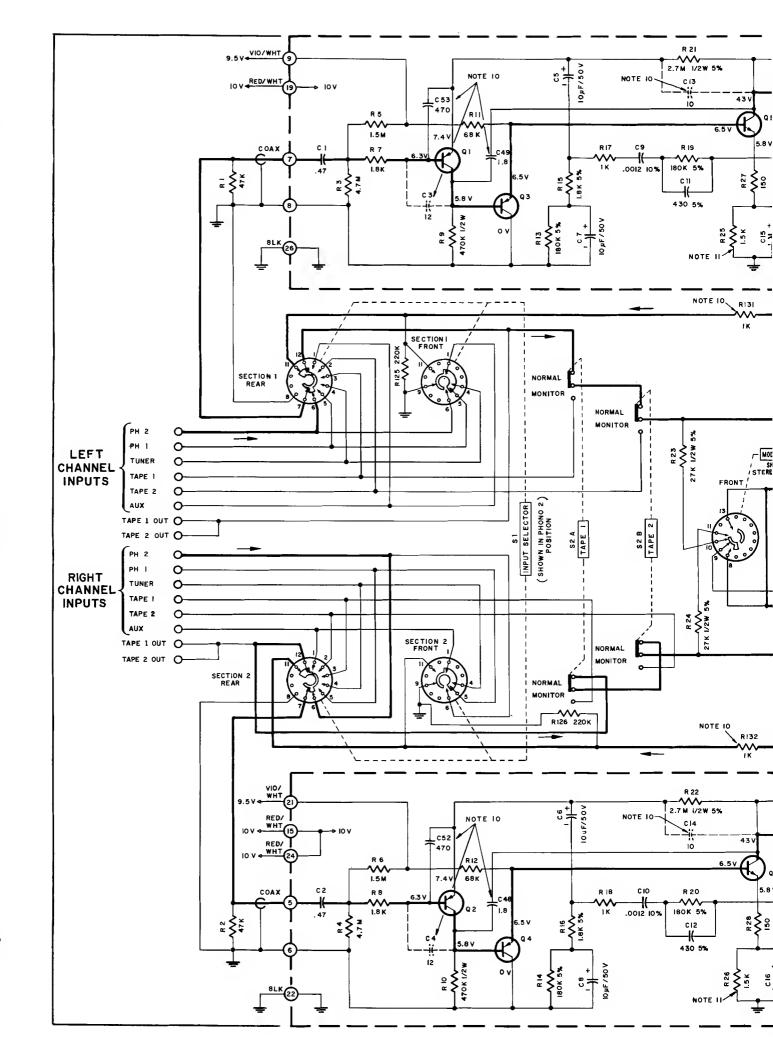


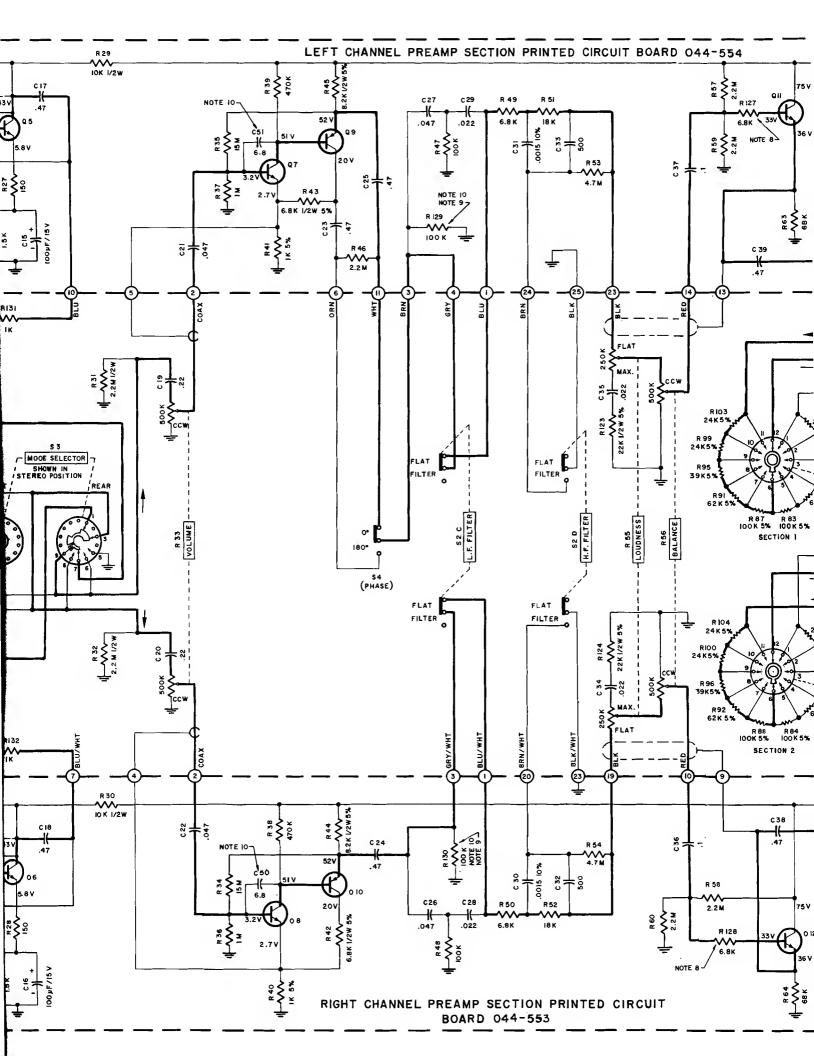


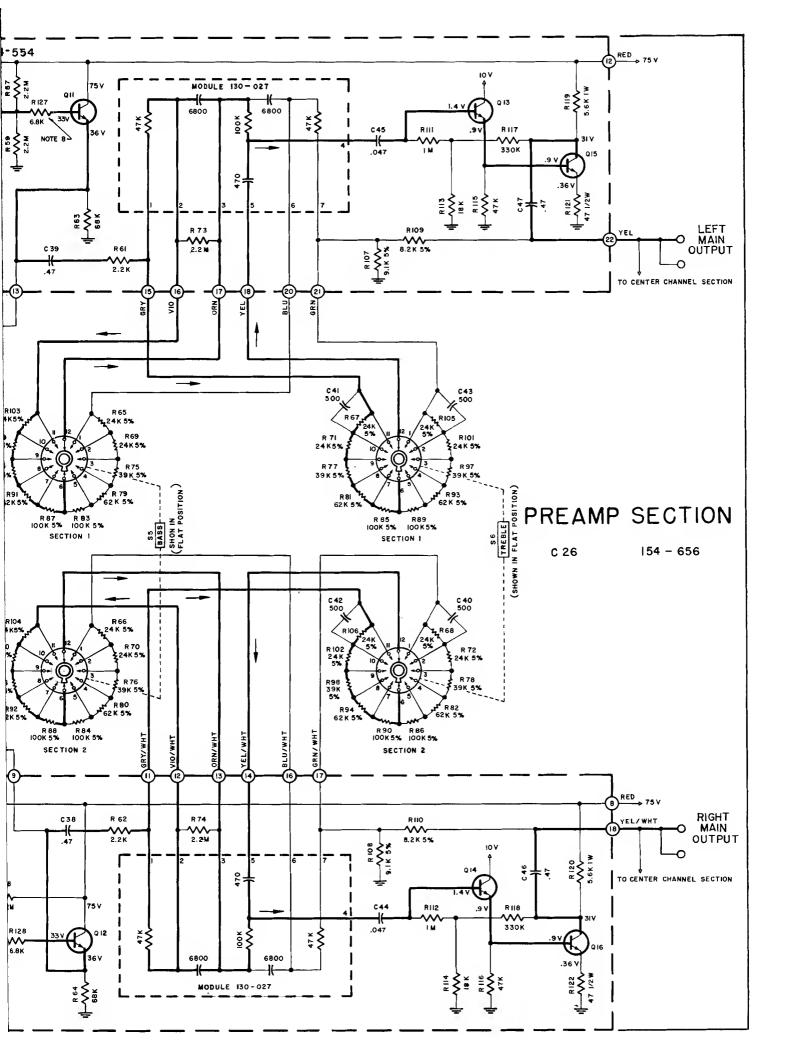
LEFT CHANNEL PREAMP PRINTED CIRCUIT BOARD 044-554

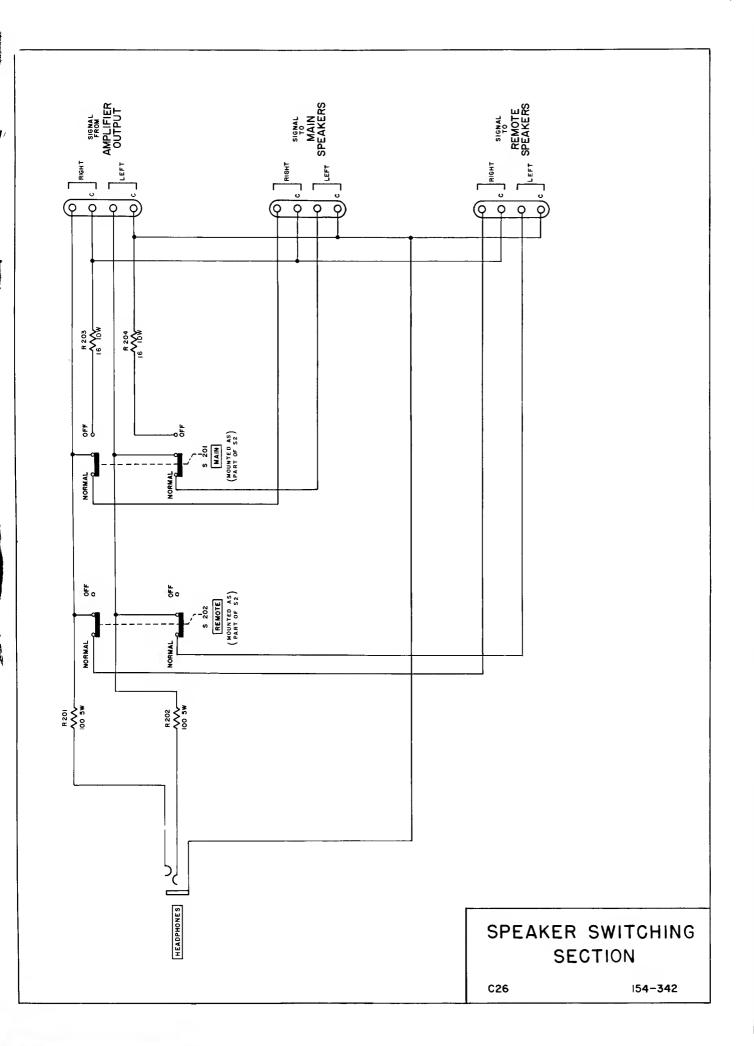


RIGHT CHANNEL PREAMP PRINTED CIRCUIT BOARD 044-553









All part able fro

Replacen by PART

> Symbol Number

C1,2

C5,6

C7,8

C15,16

C17,18

C19,20

C21,22

C23,24

C25

C26,27

C28,29

020,29

C34,35

C36,37

C38,39

C44,45

, -

C46.47

C301

C302

C304

C305

C306

C307

C308

D301,30

D303

F301

Q1,2

Q3,4

25,4

Q5,6 Q7,8

Q9,10

#### REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory, Inc. Customer Service Department 2 Chambers Street Binghamton, New York 13903 (telephone 607-723-3512)

	Binghamton, (telephone 6	New York 507-723-35	1390 12)	3
	CAPACITO	CAPACITORS		
Symbol Number	Description		Part Number	
C1,2	Mylar	.47µF	250V	064-069
C5,6	Elect.	10μF,	35V	066-239
c7,8	Elect.	10μF	35V	066-239
C15,16	Elect.	100µF	160	066-226
C17,18	Mylar	.47µF	250V	064-069
C19,20	Mylar	.22µF	200V	064-087
C21,22	Mylar	.047µF	250V	064-066
C23,24	Mylar	.47µF	250V	064-069
C25	Mylar	.47μF	250V	064-069
C26,27	Mylar	.047µF	250V	064-066
C28,29	Mylar	.022µF	25 <b>0</b> V	064-065
C <b>3</b> 4,35	Mylar	.022µF	25 <b>0</b> V	064-064
C36, <b>3</b> 7	Mylar	.1µF	250V	064-067
C38,39	Mylar	.47μF	250V	064-069
C44,45	Mylar	.047µF	250V	064 <b>-</b> 066
C46,47	Mylar	.47μF	250V	064-069
C301	Mylar	.22µF	250V	064-068
C302	Mylar	.47µF	250V	064-069
C304	Elect.	160/2 <b>00</b> 200/150		066-095
C305	Elect.	160/2 <b>00</b> 2 <b>00</b> /150		066-095
C306	Mylar	.22µF	250V	064-068
C307	Elect.	100µF	167	066-226
C308	Elect.	10 <b>0</b> μF	167	066-227
	DIO	DES		
D301,302	Si. rectifie	r		070-031
D303	Zener diode	75V		070-025
	FU	JSES		
F301	Fuse 1/2 amp	ere		089-009
	TRANSISTO	IRS		
Q1,2	Si. PNP transistor			132-096
Q3,4	Si. PNP transistor			132-096
Q5,6	Si. NPN transistor			132-095
Q7,8	Si. NPN transistor		132-095	
<b>Q</b> 9,10	Si. PNP tran	sistor		132-096

		C 26
Q11,12	Si. NPN transistor	132-095
Q13,14	Si. NPN transistor	132-092
Q15,16	Si. NPN transistor	132-042
Q301	Si. NPN transistor	132-095
Q302	Si. NPN transistor	132-028
	POTENTIOMETERS	
R33	Volume control	134-200
R55	Loudness control	134-199
R56	Balance control	134-198
R304	Center channel level	134-196
	RESISTORS	
R201,202	Wirewound 100Ω 10% 5W	139-008
R203,204	Wirewound 16Ω 10% 20W	139-022
	SWITCHES	
S <b>1</b>	Input selector switch	146-121
S 2	Pushbutton switch	150-006
\$3	Mode selector switch	146-122
S4	Phase control switch	146-119
\$5	Bass switch	146-123
\$6	Treble switch	146-123
\$201,202	Speaker switch	148-025
	TRANSFORMERS	
T 301	Power transformer	043-786
	MODULES	
	Tone control	130-027
	LAMPS	
	#1866 (front panel)	058-014
	FRONT PANEL AND TRIM	
	Front panel	043-784
	Front panel end caps	018-120
	Volume control knob	044-372
	Balance control knob	044-372
	Loudness control knob	044-372
	Mode selector knob	044-372
	Input selector knob	044-372
	Treble knob (rear)	090-009
	Treble knob (front)	044-374
	Bass knob (rear)	090-009
	Bass knob (front)	044-374
	Phase knob	044-373
	Center channel knob	044-373

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Plastic Pushbutton	017-128
MOUNTING SYSTEM	
Shelf bracket (right)	043-592
Shelf bracket (left)	043-593
Mounting template #100	038-179
Hardware package	043-792
MISCELLANEOUS ITEMS	
Line cord	170-021
Fuseholder	178-001
Shipping carton	043-946
Owners manual	038-867
Plastic feet	017-041
Shorting plug	127-001
Push terminal (outputs)	074-030
Audio cable (6')	170-015

# SERVICE BULLETIN

#### LOW FREQUENCY FILTER SWITCH MODIFICATION

MODEL: C 26 Preamp

PURPOSE OF MODIFICATION: To eliminate a "popping" sound when the low frequency filter switch is depressed.

WHAT UNITS ARE AFFECTED: Serial No. 10P01 to 30P52 Only.

WHEN MODIFICATION SHOULD BE MADE: When the customer specifically mentions the noise or when any other service is performed on the unit.

McINTOSH MODIFICATION KIT NO.: No kit available.

#### PARTS REQUIRED:

Quantity

Part Number

Description

2

136-236

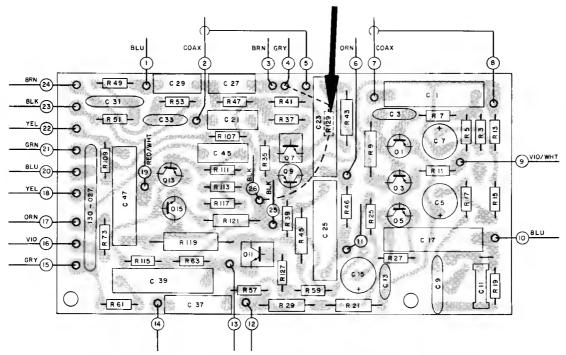
1 meg, 10%, 1/2W Resistor

#### PROCEDURE:

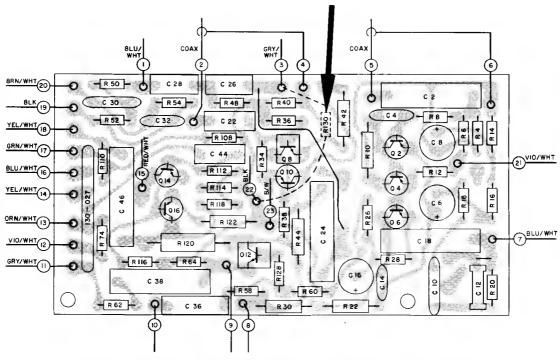
Step 1 Remove bottom cover.

Step 2 Add 1 resistor to the bottom side of each PC board as shown. The parts appear as R129 and R130 on the drawing.

(over)



LEFT CHANNEL PREAMP PRINTED CIRCUIT BOARD 043-991



RIGHT CHANNEL PREAMP PRINTED CIRCUIT BOARD 043-992

## SERVICE BULLETIN

#### REDUCE RF INTERFERENCE

MODEL: C 26 Preamplifier

PURPOSE OF MODIFICATION: To reduce sensitivity to RF-interference.

WHAT UNITS ARE AFFECTED: All units with Serial Numbers below AG3301

WHEN MODIFICATION SHOULD BE MADE: Whenever a customer complains of undesired reception of CB and HAM-apparatus, when the unit is operating in the Phono Mode-also when interference from man-made noise is encountered, such as: Refridgerators, passing cars, etc.

#### PARTS REQUIRED:

2	136301	Res. = 100K, 1/4W, 10% R399,400
2	061002	Disc. Cap. = 1.8pF, ±.25pF NPO
2	061008	Disc. Cap. = 6.8pF, 20% NPO
2	061032	Disc. Cap. = 470pF, 20%
2	136296	Res. = $1K$ , $1/4W$ , $10\%$

PROCEDURE: This change has to be made on both left and right PC board 043091 and 043092.

2. Connect a 061032 = 470pF capacitor between the base and the emitter of transistor 0301, 302.

- 3. Connect a 061002 = 1.8pF capacitor from the collector of transistor Q301, 302 to the collector of transistor Q305, 306.
- 4. Connect a 061008 = 6.8pF capacitor from the base of transistor Q307, 308 to the collector of transistor Q307, 308.
- 5. Replace R399 (R400) with a 136301 = 100K resistor.
- 6. Add a 1000 ohm resistor (136296) in series with the blue lead that connects to pin #10 on the left preamp board. This resistor should connect directly to pin #10 and the end of the blue lead. Using leads no longer than necessary, do the same for the blue/white lead connecting to pin #7 on the right preamp board.

